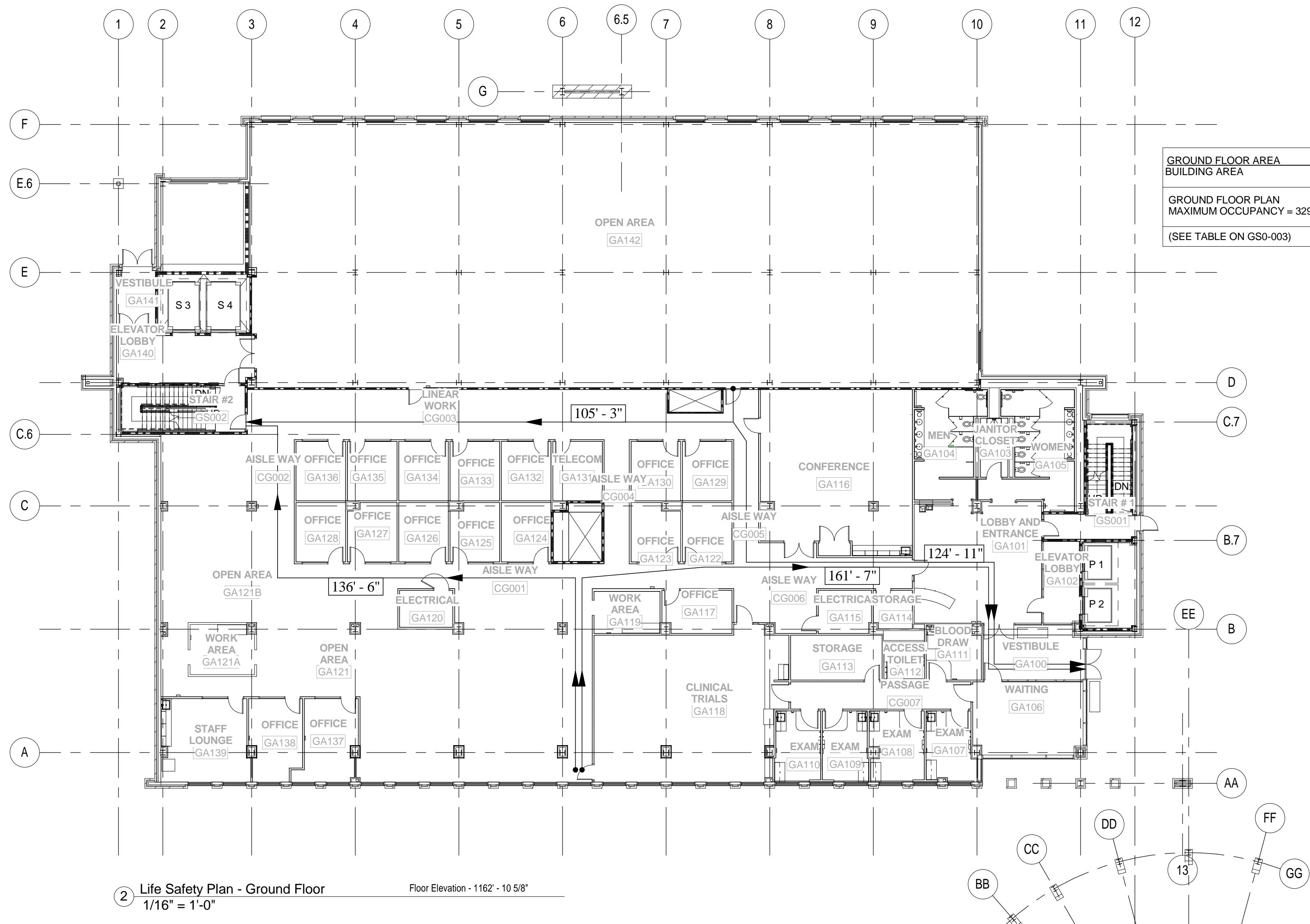
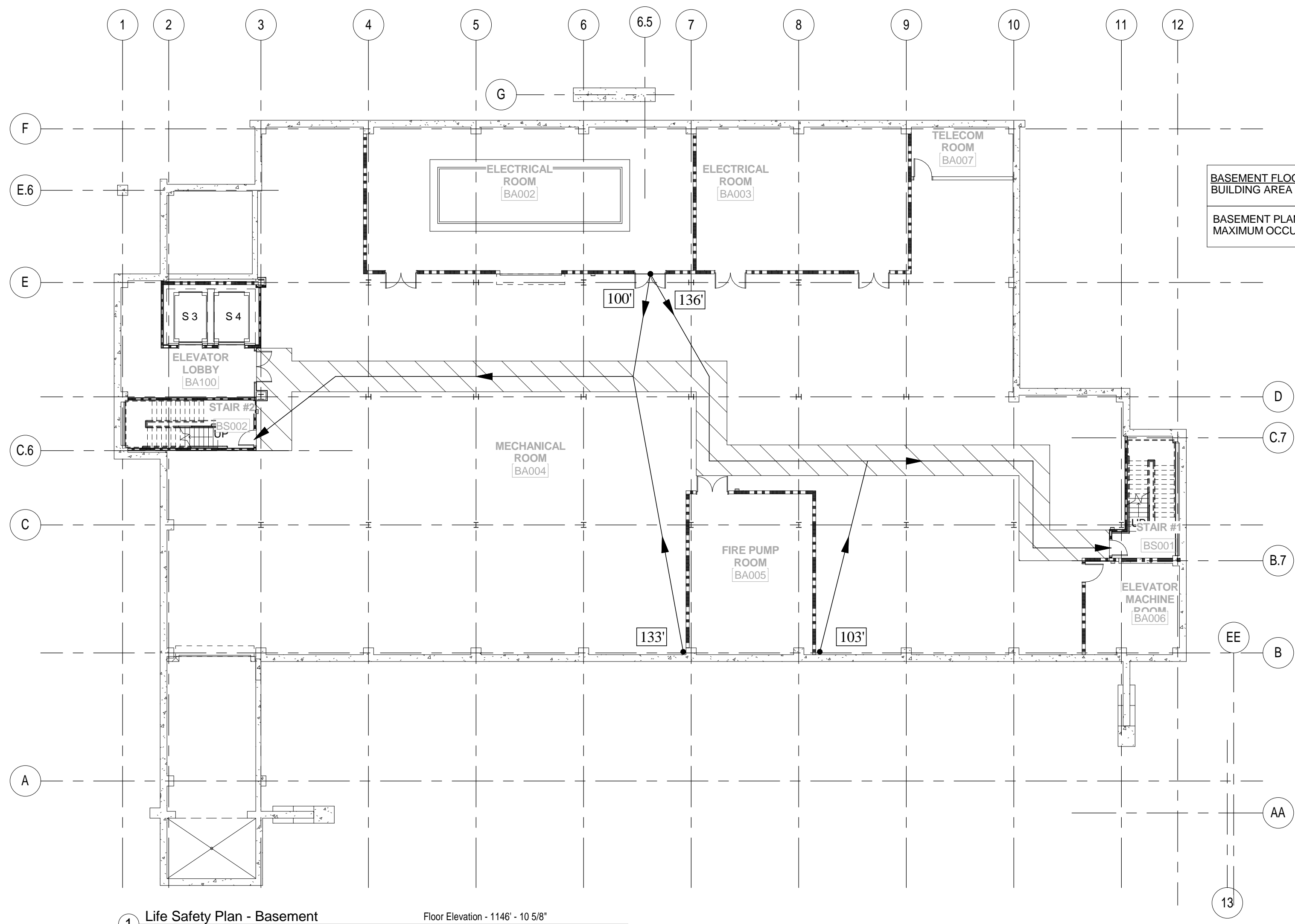


three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



BASEMENT FLOOR AREA 20,930 SF
BUILDING AREA 99,358 SF
BASEMENT PLAN
MAXIMUM OCCUPANCY = 65 PERSONS

GROUND FLOOR AREA 25,206 SF
BUILDING AREA 99,358 SF
GROUND FLOOR PLAN
MAXIMUM OCCUPANCY = 329 PERSONS
(SEE TABLE ON GS0-003)

Code Data

THE PROJECT WAS DESIGNED IN ACCORDANCE WITH THE FOLLOWING GUIDELINES AND THE LATEST EDITION OF THE FOLLOWING CODES:

- NFPA 101 2009 (LSC)
- Uniform Federal Accessibility Standards (UFAS)
- Department of Veterans Affairs - Design Manuals and Standards
- National Fire Protection Association (NFPA) except NFPA 5000
- National Standard Plumbing Code (NSPC)
- National Electric Code (NEC)
- International Mechanical Code 2006
- Occupational, Safety and Health Administration (OSHA)
- IBC 2009

USE GROUP(S)	NFPA 101 2009 (LSC)
BUSINESS, ASSEMBLY, LOW HAZARD, INDUSTRIAL	
CONSTRUCTION TYPE	II (0.0.0)
SPRINKLERS	PROVIDED
STORIES	3
STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS, TRUSSES	NON-COMBUSTIBLE
BEARING WALLS- EXTERIOR INTERIOR	NON-COMBUSTIBLE
NON-BEARING WALLS & PARTITIONS EXTERIOR INTERIOR	NON-COMBUSTIBLE
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS, TRUSSES AND FRAMING	NON-COMBUSTIBLE
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS, TRUSSES AND FRAMING	NON-COMBUSTIBLE

FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON SEPARATION DISTANCE	FIRE SEPARATION DISTANCE	TYPE OF CONSTRUCTION	GROUP A, B, E, F-2, I, R, S-2, U
< 5	ALL	1	
≥ 5	IA	1	
< 10	OTHERS	1	
≥ 10	IA, IB	1	
< 30	11B, VB	0	
	OTHERS	1	
> 30	ALL	0	

MINIMUM FIRE RESISTANCE RATING OF ENCLOSURES	HOURS
MAIN ELECTRICAL SWITCHGEAR ROOM	1
EMERGENCY GENERATOR	2
TELEPHONE, ELECTRICAL CLOSETS AND MECHANICAL EQUIPMENT ROOMS	NON-COMBUSTIBLE
STORAGE ROOMS GREATER THAN 100 SQ.FT.	SMOKE PARTITION
BOILER AND FURNACE ROOMS	NON-COMBUSTIBLE

TRAVEL DISTANCE	300'
COMMON PATH OF EGRESS TRAVEL	100'
DEAD END CORRIDOR	50' WHERE SPRINKLED

CORRIDOR WIDTHS (LSC)	44 INCHES
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EXIT CAPACITY (LSC)	0.3 INCHES PER PERSON
LEVEL COMPONENTS & RAMPS	0.2 INCHES PER PERSON

MINIMUM CLEAR WIDTH OF DOORS (LSC)	32 INCHES CLEAR WIDTH
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OCCUPANCY FIRE SEPARATION ASSEMBLIES	
EXTERIOR NON-BEARING WALLS	NON-COMBUSTIBLE
INTERIOR NON-BEARING WALLS	NON-COMBUSTIBLE
EXIT ACCESS CORRIDORS	NON-COMBUSTIBLE
ENCLOSURES OF EXIT CORRIDORS, STAIRWAYS AND ASSOCIATED EXIT CORRIDORS	2
SHAFTS AND ELEVATOR HOISTWAYS	2
CONNECTING 3 OR FEWER STORIES	
CONNECTING 3 OR FEWER STORIES	

OCCUPANCY LOAD FACTORS (LSC)	
BUSINESS AREAS	100 SQUARE FEET
STORAGE, MECHANICAL ROOMS	300 SQUARE FEET
ASSEMBLY, TABLES AND CHAIRS	15 SQUARE FEET NET
ASSEMBLY, CHAIRS ONLY	7 SQUARE FEET NET

Partition Rating Legend

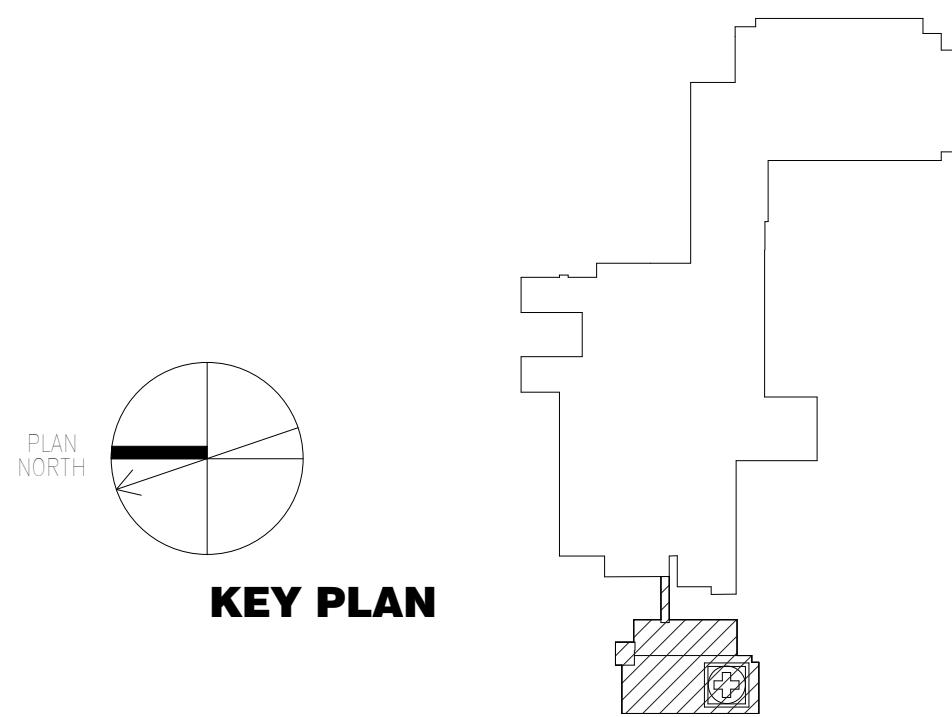
1 HOUR FIRE
2 HOUR FIRE
1 HOUR SMOKE BARRIER
HAZARDOUS AREA
SHAFT
SMOKE ZONE

Occupancy Table

Floor	Occupancy Description	Total Area (sq. ft.)	Area per Occupant	Total Occupancy
Basement	Industrial (Mechanical Space)	15,463	1/100	65
Ground Floor	Business	14,954	1/100	143
	Assembly (less concentrated use without fixed seating)	1597	1/15	107
	Low Hazard	7907	1/100	79
First Floor	Business	15,258	1/100	152
	Assembly (less concentrated use without fixed seating)	770	1/15	52
	Low Hazard	8,236	1/100	83
Second Floor	Business	16,648	1/100	166
	Assembly (less concentrated use without fixed seating)	770	1/15	52
	Industrial (Mechanical Space)	4,403	1/100	15
Bridge	Business	1,858	100	19
Roof	Business	1,548	100	15

Egress Table

Floor	Basement	Ground	First	Second	Bridge	Roof
Total Occupancy and Direction of Travel	65 up	325 from above + 329 at grade + 60 from below = 714	325 down	248 down	34 down	15 down
Stair Width Required (Minimum clear width)	44'-10"	at grade	44'-10"	44'-10"	44'-10"	44'-10"
Egress Options at each level	2 new stairs	3 with to grade	2 new stairs	2 new stairs	1 new stair and bridge to existing building	1 new stair and 1 new access hatch
Re-Entry Allowed	no	yes	no	no	no	no
# Egress Points Required	2	2	2	2	2	2
Egress Capacity Stairs (min. width 44")	65/2.3 = 28.7	287/2.3 = 125	233/2.3 = 101	197/2.3 = 86	15/2.3 = 7	15/2.3 = 7
# Egress Capacity Level (min. 36")		287/2.2 = 130				



FOR CONSTRUCTION
FULLY SPRINKLERED

CONSULTANTS: HDR HDR Architecture, Inc. 1101 King Street Suite 400 Alexandria, Virginia 22314-2944 703.518.8500		ARCHITECT/ENGINEERS: ASTORINO ARCHITECTURE ENGINEERING INTERIOR DESIGN DESIGN/BUILD 227 First Pitt Boulevard, Pittsburgh, Pennsylvania 15222 TEL: 412.765.1700 FAX: 412.765.1711 www.astorino.com		Drawing Title CODE ANALYSIS - LIFE SAFETY	Project Title V.A. CARES CONSOLIDATION VAMC, PITTSBURGH, PA RESEARCH OFFICE BLDG.	Project Number 646CA2500R	Office of Facilities Management
Revisions:		Approved: Project Director		Location VAPHS UNIVERSITY DRIVE	Building Number 30	Drawing Number GS0-003	
Date		Date		Checked	Drawn	Dwg. of	
11/16/2010		08-18-2010		Checker	Author		